



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/656,873
Source: OTRE
Date Processed by STIC: 9-16-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/cbc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,873

DATE: 09/16/2003
TIME: 10:47:05

Input Set : A:\00786.381003.SEQLIST.TXT
Output Set: N:\CRF4\09162003\J656873.raw

4 <110> APPLICANT: Fishman, Mark C.
 6 <120> TITLE OF INVENTION: Methods for Diagnosing and Treating
 7 Heart Disease
 9 <130> FILE REFERENCE: 00786/381003
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/656,873
C--> 11 <141> CURRENT FILING DATE: 2003-09-05
 11 <150> PRIOR APPLICATION NUMBER: US 09/759,508
 12 <151> PRIOR FILING DATE: 2001-01-12
 14 <150> PRIOR APPLICATION NUMBER: US 60/175,787
 15 <151> PRIOR FILING DATE: 2000-01-12
 17 <160> NUMBER OF SEQ ID NOS: 11
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0

**Does Not Comply
Corrected Diskette Needed**

ERRORED SEQUENCES

P. 6

1394 <210> SEQ ID NO: 2								
1395 <211> LENGTH: 26926								
1396 <212> TYPE: PRT								
1397 <213> ORGANISM: Homo sapiens								
1399 <400> SEQUENCE: 2								
1400 Met Thr Thr Gln Ala Pro Thr Phe Thr Gln Pro Leu Gln Ser Val Val								
1401 1 5 10 15								
1402 Val Leu Glu Gly Ser Thr Ala Thr Phe Glu Ala His Ile Ser Gly Phe								
1403 20 25 30								
1404 Pro Val Pro Glu Val Ser Trp Phe Arg Asp Gly Gln Val Ile Ser Thr								
1405 35 40 45								
1406 Ser Thr Leu Pro Gly Val Gln Ile Ser Phe Ser Asp Gly Arg Ala Lys								
1407 50 55 60								
1408 Leu Thr Ile Pro Ala Val Thr Lys Ala Asn Ser Gly Arg Tyr Ser Leu								
1409 65 70 75 80								
1410 Lys Ala Thr Asn Gly Ser Gly Gln Ala Thr Ser Thr Ala Glu Leu Leu								
1411 85 90 95								
1412 Val Lys Ala Glu Thr Ala Pro Pro Asn Phe Val Gln Arg Leu Gln Ser								
1413 100 105 110								
1414 Met Thr Val Arg Gln Gly Ser Gln Val Arg Leu Gln Val Arg Val Thr								
1415 115 120 125								
1416 Gly Ile Pro Thr Pro Val Val Lys Phe Tyr Arg Asp Gly Ala Glu Ile								
1417 130 135 140								
1418 Gln Ser Ser Leu Asp Phe Gln Ile Ser Gln Glu Gly Asp Leu Tyr Ser								
1419 145 150 155 160								
1420 Leu Leu Ile Ala Glu Ala Tyr Pro Glu Asp Ser Gly Thr Tyr Ser Val								
1421 165 170 175								

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,873

DATE: 09/16/2003
TIME: 10:47:05

Input Set : A:\00786.381003.SEQLIST.TXT
Output Set: N:\CRF4\09162003\J656873.raw

1422 Asn Ala Thr Asn Ser Val Gly Arg Ala Thr Ser Thr Ala Glu Leu Leu
 1423 180 185 190
 1424 Val Gln Gly Glu Glu Glu Val Pro Ala Lys Lys Thr Lys Thr Ile Val
 1425 195 200 205
 1426 Ser Thr Ala Gln Ile Ser Glu Ser Arg Gln Thr Arg Ile Glu Lys Lys
 1427 210 215 220
 1428 Ile Glu Ala His Phe Asp Ala Arg Ser Ile Ala Thr Val Glu Met Val
 1429 225 230 235 240
 1430 Ile Asp Gly Ala Ala Gly Gln Gln Leu Pro His Lys Thr Pro Pro Arg
 1431 245 250 255
 1432 Ile Pro Pro Lys Pro Lys Ser Arg Ser Pro Thr Pro Pro Ser Ile Ala
 1433 260 265 270
 1434 Ala Lys Ala Gln Leu Ala Arg Gln Gln Ser Pro Ser Pro Ile Arg His
 1435 275 280 285
 1436 Ser Pro Ser Pro Val Arg His Val Arg Ala Pro Thr Pro Ser Pro Val
 1437 290 295 300
 1438 Arg Ser Val Ser Pro Ala Ala Arg Ile Ser Thr Ser Pro Ile Arg Ser
 1439 305 310 315 320
 1440 Val Arg Ser Pro Leu Leu Met Arg Lys Thr Gln Ala Ser Thr Val Ala
 1441 325 330 335
 1442 Thr Gly Pro Glu Val Pro Pro Trp Lys Gln Glu Gly Tyr Val Ala
 1443 340 345 350
 1444 Ser Ser Ser Glu Ala Glu Met Arg Glu Thr Thr Leu Thr Ser Thr
 1445 355 360 365
 1446 Gln Ile Arg Thr Glu Glu Arg Trp Glu Gly Arg Tyr Gly Val Gln Glu
 1447 370 375 380
 1448 Gln Val Thr Ile Ser Gly Ala Ala Gly Ala Ala Ala Ser Val Ser Ala
 1449 385 390 395 400
 1450 Ser Ala Ser Tyr Ala Ala Glu Ala Val Ala Thr Gly Ala Lys Glu Val
 1451 405 410 415
 1452 Lys Gln Asp Ala Asp Lys Ser Ala Ala Val Ala Thr Val Val Ala Ala
 1453 420 425 430
 1454 Val Asp Met Ala Arg Val Arg Glu Pro Val Ile Ser Ala Val Glu Gln
 1455 435 440 445
 1456 Thr Ala Gln Arg Thr Thr Ala Val His Ile Gln Pro Ala Gln
 1457 450 455 460
 1458 Glu Gln Val Arg Lys Glu Ala Glu Lys Thr Ala Val Thr Lys Val Val
 1459 465 470 475 480
 1460 Val Ala Ala Asp Lys Ala Lys Glu Gln Glu Leu Lys Ser Arg Thr Lys
 1461 485 490 495
 1462 Glu Ile Ile Thr Thr Lys Gln Glu Gln Met His Val Thr His Glu Gln
 1463 500 505 510
 1464 Ile Arg Lys Glu Thr Glu Lys Thr Phe Val Pro Lys Val Val Ile Ser
 1465 515 520 525
 1466 Ala Ala Lys Ala Lys Glu Gln Glu Thr Arg Ile Ser Glu Glu Ile Thr
 1467 530 535 540
 1468 Lys Lys Gln Lys Gln Val Thr Gln Glu Ala Ile Met Lys Glu Thr Arg
 1469 545 550 555 560
 1470 Lys Thr Val Val Pro Lys Val Ile Val Ala Thr Pro Lys Val Lys Glu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,873

DATE: 09/16/2003
TIME: 10:47:05

Input Set : A:\00786.381003.SEQLIST.TXT
Output Set: N:\CRF4\09162003\J656873.raw

1471	565	570	575
1472	Gln Asp Leu Val Ser Arg Gly Arg Glu Gly Ile Thr Thr Lys Arg Glu		
1473	580	585	590
1474	Gln Val Gln Ile Thr Gln Glu Lys Met Arg Lys Glu Ala Glu Lys Thr		
1475	595	600	605
1476	Ala Leu Ser Thr Ile Ala Val Ala Thr Ala Lys Ala Lys Glu Gln Glu		
1477	610	615	620
1478	Thr Ile Leu Arg Thr Arg Glu Thr Met Ala Thr Arg Gln Glu Gln Ile		
1479	625	630	635
1480	Gln Val Thr His Gly Lys Val Asp Val Gly Lys Lys Ala Glu Ala Val		
1481	645	650	655
1482	Ala Thr Val Val Ala Ala Val Asp Gln Ala Arg Val Arg Glu Pro Arg		
1483	660	665	670
1484	Glu Pro Gly His Leu Glu Glu Ser Tyr Ala Gln Gln Thr Thr Leu Glu		
1485	675	680	685
1486	Tyr Gly Tyr Lys Glu Arg Ile Ser Ala Ala Lys Val Ala Glu Pro Pro		
1487	690	695	700
1488	Gln Arg Pro Ala Ser Glu Pro His Val Val Pro Lys Ala Val Lys Pro		
1489	705	710	715
1490	Arg Val Ile Gln Ala Pro Ser Glu Thr His Ile Lys Thr Thr Asp Gln		
1491	725	730	735
1492	Lys Gly Met His Ile Ser Ser Gln Ile Lys Lys Thr Thr Asp Leu Thr		
1493	740	745	750
1494	Thr Glu Arg Leu Val His Val Asp Lys Arg Pro Arg Thr Ala Ser Pro		
1495	755	760	765
1496	His Phe Thr Val Ser Lys Ile Ser Val Pro Lys Thr Glu His Gly Tyr		
1497	770	775	780
1498	Glu Ala Ser Ile Ala Gly Ser Ala Ile Ala Thr Leu Gln Lys Glu Leu		
1499	785	790	795
1500	Ser Ala Thr Ser Ser Ala Gln Lys Ile Thr Lys Ser Val Lys Ala Pro		
1501	805	810	815
1502	Thr Val Lys Pro Ser Glu Thr Arg Val Arg Ala Glu Pro Thr Pro Leu		
1503	820	825	830
1504	Pro Gln Phe Pro Phe Ala Asp Thr Pro Asp Thr Tyr Lys Ser Glu Ala		
1505	835	840	845
1506	Gly Val Glu Val Lys Glu Val Gly Val Ser Ile Thr Gly Thr Thr		
1507	850	855	860
1508	Val Arg Glu Glu Arg Phe Glu Val Leu His Gly Arg Glu Ala Lys Val		
1509	865	870	875
1510	Thr Glu Thr Ala Arg Val Pro Ala Pro Val Glu Ile Pro Val Thr Pro		
1511	885	890	895
1512	Pro Thr Leu Val Ser Gly Leu Lys Asn Val Thr Val Ile Glu Gly Glu		
1513	900	905	910
1514	Ser Val Thr Leu Glu Cys His Ile Ser Gly Tyr Pro Ser Pro Thr Val		
1515	915	920	925
1516	Thr Trp Tyr Arg Glu Asp Tyr Gln Ile Glu Ser Ser Ile Asp Phe Gln		
1517	930	935	940
1518	Ile Thr Phe Gln Ser Gly Ile Ala Arg Leu Met Ile Arg Glu Ala Phe		
1519	945	950	955
			960

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,873

DATE: 09/16/2003
TIME: 10:47:05

Input Set : A:\00786.381003.SEQLIST.TXT
Output Set: N:\CRF4\09162003\J656873.raw

1520 Ala Glu Asp Ser Gly Arg Phe Thr Cys Ser Ala Val Asn Glu Ala Gly
1521 965 970 975
1522 Thr Val Ser Thr Ser Cys Tyr Leu Ala Val Gln Val Ser Glu Glu Phe
1523 980 985 990
1524 Glu Lys Glu Thr Thr Ala Val Thr Glu Lys Phe Thr Thr Glu Glu Lys
1525 995 1000 1005
1526 Arg Phe Val Glu Ser Arg Asp Val Val Met Thr Asp Thr Ser Leu Thr
1527 1010 1015 1020
1528 Glu Glu Gln Ala Gly Pro Gly Glu Pro Ala Ala Pro Tyr Phe Ile Thr
1529 1025 1030 1035 1040
1530 Lys Pro Val Val Gln Lys Leu Val Glu Gly Gly Ser Val Val Phe Gly
1531 1045 1050 1055
1532 Cys Gln Val Gly Gly Asn Pro Lys Pro His Val Tyr Trp Lys Lys Ser
1533 1060 1065 1070
1534 Gly Val Pro Leu Thr Thr Gly Tyr Arg Tyr Lys Val Ser Tyr Asn Lys
1535 1075 1080 1085
1536 Gln Thr Gly Glu Cys Lys Leu Val Ile Ser Met Thr Phe Ala Asp Asp
1537 1090 1095 1100
1538 Ala Gly Glu Tyr Thr Ile Val Val Arg Asn Lys His Gly Glu Thr Ser
1539 1105 1110 1115 1120
1540 Ala Ser Ala Ser Leu Leu Glu Glu Ala Asp Tyr Glu Leu Leu Met Lys
1541 1125 1130 1135
1542 Ser Gln Gln Glu Met Leu Tyr Gln Thr Gln Val Thr Ala Phe Val Gln
1543 1140 1145 1150
1544 Glu Pro Glu Val Gly Glu Thr Ala Pro Gly Phe Val Tyr Ser Glu Tyr
1545 1155 1160 1165
1546 Glu Lys Glu Tyr Glu Lys Glu Gln Ala Leu Ile Arg Lys Lys Met Ala
1547 1170 1175 1180
1548 Lys Asp Thr Val Val Val Arg Thr Tyr Val Glu Asp Gln Glu Phe His
1549 1185 1190 1195 1200
1550 Ile Ser Ser Phe Glu Glu Arg Leu Ile Lys Glu Ile Glu Tyr Arg Ile
1551 1205 1210 1215
1552 Ile Lys Thr Thr Leu Glu Glu Leu Leu Glu Glu Asp Gly Glu Glu Lys
1553 1220 1225 1230
1554 Met Ala Val Asp Ile Ser Glu Ser Glu Ala Val Glu Ser Gly Phe Asp
1555 1235 1240 1245
1556 Leu Arg Ile Lys Asn Tyr Arg Ile Leu Glu Gly Met Gly Val Thr Phe
1557 1250 1255 1260
1558 His Cys Lys Met Ser Gly Tyr Pro Leu Pro Lys Ile Ala Trp Tyr Lys
1559 1265 1270 1275 1280
1560 Asp Gly Lys Arg Ile Lys His Gly Glu Arg Tyr Gln Met Asp Phe Leu
1561 1285 1290 1295
1562 Gln Asp Gly Arg Ala Ser Leu Arg Ile Pro Val Val Leu Pro Glu Asp
1563 1300 1305 1310
1564 Glu Gly Ile Tyr Thr Ala Phe Ala Ser Asn Ile Lys Gly Asn Ala Ile
1565 1315 1320 1325
1566 Cys Ser Gly Lys Leu Tyr Val Glu Pro Ala Ala Pro Leu Gly Ala Pro
1567 1330 1335 1340
1568 Thr Tyr Ile Pro Thr Leu Glu Pro Val Ser Arg Ile Arg Ser Leu Ser

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,873

DATE: 09/16/2003
 TIME: 10:47:05

Input Set : A:\00786.381003.SEQLIST.TXT
 Output Set: N:\CRF4\09162003\J656873.raw

1569	1345	1350	1355	1360
1570	Pro Arg Ser Val Ser Arg Ser Pro Ile Arg Met Ser Pro Ala Arg Met			
1571	1365	1370	1375	
1572	Ser Pro Ala Arg Met Ser Pro Ala Arg Met Ser Pro Ala Arg Met Ser			
1573	1380	1385	1390	
1574	Pro Gly Arg Arg Leu Glu Glu Thr Asp Glu Ser Gln Leu Glu Arg Leu			
1575	1395	1400	1405	
1576	Tyr Lys Pro Val Phe Val Leu Lys Pro Val Ser Phe Lys Cys Leu Glu			
1577	1410	1415	1420	
1578	Gly Gln Thr Ala Arg Phe Asp Leu Lys Val Val Gly Arg Pro Met Pro			
1579	1425	1430	1435	1440
1580	Glu Thr Phe Trp Phe His Asp Gly Gln Gln Ile Val Asn Asp Tyr Thr			
1581	1445	1450	1455	
1582	His Lys Val Val Ile Lys Glu Asp Gly Thr Gln Ser Leu Ile Ile Val			
1583	1460	1465	1470	
1584	Pro Ala Thr Pro Ser Asp Ser Gly Glu Trp Thr Val Val Ala Gln Asn			
1585	1475	1480	1485	
1586	Arg Ala Gly Arg Ser Ser Ile Ser Val Ile Leu Thr Val Glu Ala Val			
1587	1490	1495	1500	
1588	Glu His Gln Val Lys Pro Met Phe Val Glu Lys Leu Lys Asn Val Asn			
1589	1505	1510	1515	1520
1590	Ile Lys Glu Gly Ser Arg Leu Glu Met Lys Val Arg Ala Thr Gly Asn			
1591	1525	1530	1535	
1592	Pro Asn Pro Asp Ile Val Trp Leu Lys Asn Ser Asp Ile Ile Val Pro			
1593	1540	1545	1550	
1594	His Lys Tyr Pro Lys Ile Arg Ile Glu Gly Thr Lys Gly Glu Ala Ala			
1595	1555	1560	1565	
1596	Leu Lys Ile Asp Ser Thr Val Ser Gln Asp Ser Ala Trp Tyr Thr Ala			
1597	1570	1575	1580	
1598	Thr Ala Ile Asn Lys Ala Gly Arg Asp Thr Thr Arg Cys Lys Val Asn			
1599	1585	1590	1595	1600
1600	Val Glu Val Glu Phe Ala Glu Pro Glu Pro Glu Arg Lys Leu Ile Ile			
1601	1605	1610	1615	
1602	Pro Arg Gly Thr Tyr Arg Ala Lys Glu Ile Ala Ala Pro Glu Leu Glu			
1603	1620	1625	1630	
1604	Pro Leu His Leu Arg Tyr Gly Gln Glu Gln Trp Glu Glu Gly Asp Leu			
1605	1635	1640	1645	
1606	Tyr Asp Lys Glu Lys Gln Gln Lys Pro Phe Phe Lys Lys Leu Thr			
1607	1650	1655	1660	
1608	Ser Leu Arg Leu Lys Arg Phe Gly Pro Ala His Phe Glu Cys Arg Leu			
1609	1665	1670	1675	1680
1610	Thr Pro Ile Ser Asp Pro Thr Met Val Val Glu Trp Leu His Asp Gly			
1611	1685	1690	1695	
1612	Lys Pro Leu Glu Ala Ala Asn Arg Leu Arg Met Ile Asn Glu Phe Gly			
1613	1700	1705	1710	
1614	Tyr Cys Ser Leu Asp Tyr Gly Val Ala Tyr Ser Arg Asp Ser Gly Ile			
1615	1715	1720	1725	
1616	Ile Thr Cys Arg Ala Thr Asn Lys Tyr Gly Thr Asp His Thr Ser Ala			
1617	1730	1735	1740	

Val Asn Ile Ala Gly Ile Gly Glu Pro Gly Glu Val Thr Asp Val Ile
10005 10010 10015
Glu Met Lys Asp Arg Leu Val Ser Pro Asp Leu Gln Leu Asp Ala Ser
10020 10025 10030

This is a sample of global error.
Please leave one space between the last
amino-acid number and the next
amino-acid.

eg:

Gly || Ile
10005 ||